

L4 ANSWER 386 OF 561 CA COPYRIGHT 2004 ACS on STN  
 AN 110:120184 CA  
 ED Entered STN: 03 Apr 1989  
 TI Hydraulic cement with high durability and strength  
 IN Uchida, Shunichiro; Habara, Toshisuke  
 PA Onoda Cement Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C04B007-345  
 CC 58-1 (Cement, Concrete, and Related Building Materials)  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63248751	A2	19881017	JP 1987-79717	19870402
PRAI	JP 1987-79717		19870402		

AB The hydraulic cement contains  $11\text{CaO} \cdot 7\text{Al}_2\text{O}_3 \cdot \text{CaX}_2$  (X = halogen) 5-30, anhydrite 5-30,  $\text{Al}(\text{OH})_3$  and/or  $\text{Al}_2(\text{SO}_4)_3$  0.5-10%, and balance Ca silicate and/or siliceous powder at a  $(\text{CaO} \cdot 3\text{Al}_2\text{O}_3 \cdot \text{SO}_3)/\text{SiO}_2$  mol ratio .1 to req. 1.7. Thus, cement, comprising  $11\text{CaO} \cdot 7\text{Al}_2\text{O}_3 \cdot \text{CaF}_2$  13, C3S 27, blast-furnace slag 40, anhydrite 19, and  $\text{Al}(\text{OH})_3$  1 wt.%, was mixed with sand, alkali-resistant glass fiber, Mighty 150,  $\text{HNO}_3$  (as setting retardant), and water, molded, and hardened to give a cement product having initial, 7-, and 91-day bending strength 240, 320, 290 kg/cm<sup>2</sup>, resp.  
 ST calcium aluminate hydraulic cement; silicate calcium hydraulic cement; anhydrite hydraulic cement; aluminum hydrixodde hydraulic cement; blast furnace slag hydraulic cement  
 IT Glass fibers, uses and miscellaneous  
 RL: USES (Uses)  
 (cement reinforced with, manuf. of